

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **03199102 A**

(43) Date of publication of application: 30 . 08 . 91

(51) Int. Cl. **C01B 3/32**  
**B01J 23/80**

(21) Application number: 01338284

(71) Applicant: **MITSUBISHI GAS CHEM CO INC**

(22) Date of filing: 28 . 12 . 89

(72) Inventor: **YAMAMOTO KAZUO**(54) **REFORMING DEVICE FOR METHANOL**

obtained.

(57) Abstract:

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**PURPOSE:** To facilitate operation and the maintenance and inspection of device and equipment at the time of reforming a methanol-water mixed vapor in the presence of a catalyst with a combustion gas by controlling the reforming temp. with the control of the temp. of the reheated combustion gas.

**CONSTITUTION:** The preheated raw material of a methanol-water liq. mixture is introduced into a raw material evaporator 2 through a passage 13 and a liq. mixture header 3, heated by a high temp. combustion gas, vaporized, passed through a raw gas header 4 and separated into a passage 14 and a passage 15. The raw gas in the passage 14 is introduced into a raw gas superheater 5, heated by the combustion reheated to an optimum temp. by a combustion gas generator 10 and superheated. The superheated gas is joined to the raw gas from the passage 15 and a flow control valve A and mixed or the superheated gas is adjusted to an optimum temp. for the reforming reaction without being joined or mixed and introduced into a reforming reaction tube 6 through a raw gas mixture inlet header 7 to cause a reforming reaction, and the gaseous reaction product is

